

S3A - S3M

Features

- Low profile package.
- Glass passivated junction.



General Purpose Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value				Units			
		3A 3B 3D 3G 3J 3K 3F		3M					
V_{RRM}	Maximum Repetitive Reverse Voltage		100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, @ T _A = 100°C	3.0			Α				
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave			Α					
T _{stg}	Storage Temperature Range -55 to +150			°C					
T _J	Operating Junction Temperature -55 to +150			°C					

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P_{D}	Power Dissipation	2.6	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient*	47	°C/W

^{*}Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics $T_A = 25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter		Device							Units
			3A	3B	3D	3G	3J	3K	3M	
V_{F}	Forward Voltage @ 3.0 A					1.2				V
t _{rr}	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$		2.5						μs	
I _R		T _A = 25°C T _A = 125°C				5.0 250				μA μA
Ст	Total Capacitance $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$					60				pF

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General Purpose Rectifiers

(continued)

Typical Characteristics

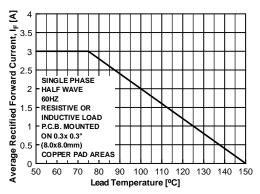


Figure 1. Forward Current Derating Curve

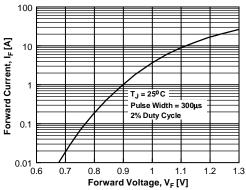


Figure 2. Forward Voltage Characteristics

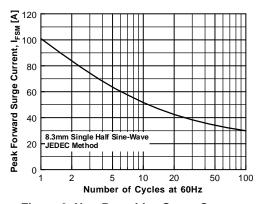


Figure 3. Non-Repetitive Surge Current

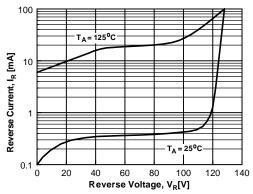


Figure 4. Reverse Current vs Reverse Voltage

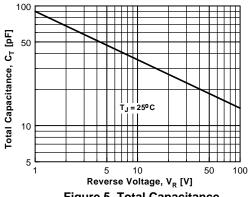


Figure 5. Total Capacitance

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